



## The Minuteman Repeater Association

*A non-profit organization providing communications infrastructure and volunteers for community and emergency events.*



# The Minuteman

Volume 44, Number 5

May 2015

**Membership Meeting ~ Wednesday, May 20 ~ 7 PM**

## Officers Report to Members and General Elections

*This is our official annual membership meeting which will include the elections of officers for 2015-2016*

**(SEE PAGE 3 FOR THE SLATE OF OFFICERS.)**

**Location: The Campion Center, 319 Concord Road, Weston**  
**Talkin: 146.79**

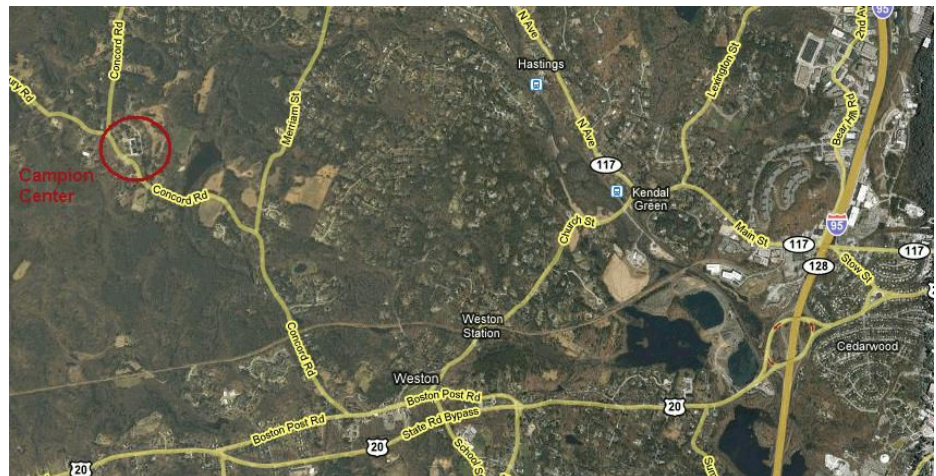
### From Route 128 (I-95):

From Route 128 (I-95) in Waltham, take the Route 20 exit and head west to the town of Weston. At the first major intersection, turn **RIGHT** on to Boston Post Road. Drive straight through the town center. After the center, turn right on to Concord Road. Then see below.

### From Route 20 heading East towards Weston:

Head East on Route 20. After entering Weston on Route 20 bear left onto Boston Post Road. From Boston Post Road turn left onto Concord Road.

The **Campion Center** is on Concord Road. However, before you get to it, there will be a fork on Concord Road where Concord road takes a turn to the left. You will find Campion a short distance after the fork. It will be a large building with a dome on your right.



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| Band  | XMTR Location  | Freq     | PL   | Call   | Linking                         |                 |
|---|--|----------|--|--------|---------------------------------|-----------------|
|   |  |          |  |        | To Hub 1                        | To Hub 2        |
| MMRA Voice Repeaters  |  |          |  |        |                                 |                 |
| 10m   | Marlborough  | 29.680   | 131.8  | W1MRA  | PTL                             | PTL             |
| 6m  | Marlborough  | 53.810   | 71.9   | W1BRI  | PTL                             | PTL             |
| 2m  | Brookline  | 145.160  | na   | K1MRA  | D-Star                          |                 |
|   | Belmont  | 145.430  | 146.2  | N1DDK  | PTL                             | FTL: DARI       |
|   | Mendon   | 146.610  |  | AE1C   | FTL                             | PTL             |
|   | Quincy   | 146.670  |  | W1BRI  | PTL                             | PTL             |
|   | Burlington   | 146.715  |  | KC1US  | PTL                             | PTL             |
|   | Weston   | 146.790  |  | N1BE   | PTL                             | PTL             |
|   | Boston   | 146.820  |  | K1BOS  | FTL                             | PTL             |
|   | Remote receive in Brookline<br>Boston: PLin = 127.3                            |          |  |        |                                 |                 |
| Marlborough   | 147.270  | 146.2    | W1MRA  | PTL    | PTL                             |                 |
| 1½m   | Hopkinton  | 223.940  | 103.5  | KB1LOY | PTL                             | FTL             |
|   | Quincy   | 224.400  |  | N1KUG  | PTL                             | FTL             |
|   | Weston   | 224.700  |  | N1NOM  | PTL                             | FTL             |
|   | Marlborough  | 224.880  |  | W1MRA  | PTL                             | FTL             |
| 70cm  | Lowell   | 442.250  | 88.5   | K1LVF  | FTL                             | PTL:<br>446.775 |
|   | Weston *   | 442.700  |  | KG1H   | Network Hub 2<br>(PTL to Hub 1) |                 |
|   | Burlington   | 446.775  |  | W1DYJ  | FTL                             | PTL             |
|   | Marlborough  | 448.225  | na   | W1MRA  | D-Star                          |                 |
|   | Marlborough  | 449.575  | 88.5   | W1BRI  | PTL                             | PTL             |
|   | Marlborough *  | 449.925  |  | W1MRA  | Network Hub 1                   |                 |
| 33cm  | Boston *   | 927.0625 | D244   | K1RJZ  | PTL                             | PTL             |
|   | Marlborough *  | 927.700  |  | W1MRA  | PTL                             | PTL             |
| PL out = 131.8  |  |          |  |        |                                 |                 |
| Marlborough   |  | 144.390  | none   | W1MRA  | APRS Digipeater                 |                 |
| ???   |  | 145.630  | 146.2  | W1MRA  | Fox Box                         |                 |
| *Internet   | HUB1– 449.925: IRLP node 4133 / Echolink node 4133                             |          |  |        |                                 |                 |
|   | HUB2 – 442.700: IRLP node 4136;<br>Connected to 220 Reflector 9124 on Tuesdays |          |  |        |                                 |                 |
|   | 927.0625: IRLP 4977  |          | Normally linked to the NE900 Reflector, 9125. Linked to MMRA via IRLP for the TIAOS net. Normally linked |        |                                 |                 |
|   | 927.700: IRLP 4978   |          |  |        |                                 |                 |
| <b>Notes:</b> FTL = Full Time Linked (or default state)<br>PTL = Part Time Linked (on schedule or demand) |  |          |  |        |                                 |                 |

## President's Corner ~ Bob DeMattia, K1IW

MMRA Elections are being held at the next meeting on May 20th. Once again, the board received no nominations for officers, so the entire board is running unopposed. Assuming things go as they probably will, I'll be beginning my 12th term as MMRA president following the election.

When I was elected in 2004, we had about 185 members. Today, that number is north of 250. As a regional club, MMRA has some interesting challenges - the most prevalent of which is that local clubs tend to get priority over MMRA when events conflict. Also as a regional club, MMRA needed to provide a reason for people to join beyond it just being a social activity. In the past decade, I think we've done a good job of establishing our club as one whose primary purpose is public service. Many public service oriented hams have joined be-

cause of this.

MMRA has also developed its repeater network extensively since 2004. We have new locations as far south as Mendon and as far north as Lowell. Through the generous contributions of time, effort, and money, MMRA now has repeaters at One Financial Center and the Prudential Tower in Boston. We've added 900MHz and D-Star to our repertoire.

That being said, there have been some things that I would have liked to see improved that haven't. In my first President's Corner, September 2004, I stated "I hope to see some increased participation from all of our members." While membership activity is strong at our events, we still struggle to find members willing to serve as officers and/or in committee positions.

At the completion of my likely 12th term, I will not be running for reelection. By announcing this now, the club has a year to find someone willing and able to be the MMRA's next president.

I've enjoyed leading the club through the past decade - we've accomplished many things. I hope that the next person will be able to continue this tradition.

### Notice of

### *Upcoming Marathon Meeting*

On Tuesday, June 16th MMRA will host a town hall session for those who participated in the 2015 Boston Marathon. This will be your opportunity to provide feedback to MMRA concerning what things went well and what things need improvement. I hope you will be able to attend.

At the Clay Center Observatory, 30 Newton St, Brookline MA. Tuesday, June 16th at 7PM.

### Bob DeMattia, K1IW, wins QST Cover Plaque award

#### K1IW Wins April QST Cover Plaque Award

TAGS: arri members, author, authors, ballot, cover plaque award, favorite article, issue, MHz, Plaque Poll web, popular article, QST Cover Plaque, vote, winner

04/15/2015

The winner of the April 2015 QST Cover Plaque award is Bob DeMattia, K1IW, for his article "Untangling Digital Voice Above 50 MHz."

The QST Cover Plaque Award -- given to the author or authors of the most popular article in each issue -- is determined by a vote of ARRL members on the [QST Cover Plaque Poll web page](#). Cast a ballot for your favorite article in the May issue today.

### Slate of Officers

Report of the Nominating Committee of N1BDA, KG1H, and W1DYJ:

|                       |                |        |
|-----------------------|----------------|--------|
| <b>President</b>      | Bob DeMattia   | K1IW   |
| <b>Vice President</b> | Steve Telsey   | N1BDA  |
| <b>Secretary</b>      | John McGovern  | W1JMC  |
| <b>Treasurer</b>      | Kevin Paetzold | K1KWP  |
| <b>Clerk</b>          | Bob Evans      | N1BE   |
| <b>Director »2017</b> | Steve Schwarm  | W3EVE  |
| <b>Director »2017</b> | Roger Coulson  | WA1NVC |

#### Ongoing Directors elected last year:

|                       |              |       |
|-----------------------|--------------|-------|
| <b>Director »2016</b> | Clark Conti  | N1NVK |
| <b>Director »2016</b> | Mike Neilsen | W1MPN |

## **April Business Meeting ~ Bob Evans, Clerk, N1BE**

The MMRA Board met for a business meeting at 7PM on April 15th at Stratus Technologies in Maynard. In attendance were K1KWP, K1IW, W1DYJ, N1BE, KA3RLZ, N1BDA, WA1NVC, N1DDK, W1BRI, K1BOS, KG1H, N1NVK and (by telephone) W1MPN.

Kevin, K1KWP, gave a Treasurer's Report with an overview of the MMRA finances and membership status.

Mike, W1MPN, proposed that the board develop a formal Budgeting Process for future MMRA fiscal years, where projects would be prioritized for the fiscal year. The board was in favor and K1IW agreed to appoint a committee to develop a budget for the fiscal year that will begin in 2016.

Dave, KG1H, reviewed past and future public service events where the MMRA has involvement. Dave also suggested more MMRA involvement at the Head of the Charles Regatta in October.

Bob, K1IW and Bryan, W1BRI discussed Repeater Status including 147.27 interference (possibly seasonal); 10 Meters will be off the air for the Marathon; 449.925 IRLP node disk and audio board problem; there is no tone output on 146.67; and a 145.09 MHz digipeater to be installed at MRE.

K1IW led a discussion of alternatives in moving the 449.575 repeater from Southboro to Hopkinton. The board favored an expenditure of about \$4200 to move the repeater and do some maintenance to the 223.94 repeater already at Hopkinton. We also suggested finding another interested party doing work at the site to share costs of a tower climber. The board will present a motion for approval of this expenditure at the May membership meeting.

K1IW reviewed a contract the City of Marlborough requested the MMRA to approve. This contract

formalizes the terms under which the city provides space for the MRW repeater site. The board agreed to signing this contract with a few minor changes to the original proposal by Marlborough.

We then discussed a proposal for affiliation with New England Amateur Radio Inc. (NEAR). NEAR's purpose is to promote education and growth of amateur radio as a STEM activity (science, technology, engineering, and math), as a communications hobby, and as support for emergency preparedness and public service. K1IW appointed N1DDK to chair a small committee to hone this proposal to something the board can approve.

Patrick, KC1AJT, is a club member and a student at PACE University. He is working on a school project to develop a network of two mesh-nodes - built from Linksys routers and 3' Yagi antennas. In May, the project will be complete and he'd like to donate the equipment to the club. The board approved accepting this equipment and we look forward to working with Patrick to decide how to deploy this equipment at some MMRA sites.

We discussed the agenda for May meeting, and K1IW recruited volunteers to find speakers/organize meetings for the following year.

K1IW discussed the MMRA at Boxboro. Some members are getting together to sit at the same table at the Saturday night banquet. There are a few more seats available to make two full tables. Contact K1IW if you are interested in joining in. We also are looking for help manning the MMRA booth. (MMRA has the usual room and will be doing talk-in.)

The meeting adjourned at 8:50.

**Next MMRA Business Meeting:  
Wednesday 17 June, 7PM  
Stratus, Maynard**



## Public Service Report ~ David Wolfe, KG1H

Public Service Events sponsored by the MMRA or other ham organizations that members of the MMRA participate in and/or MMRA repeaters support:

CF Cycle For Life - 11 October 2014

Sutton Chain of Lights – 03 December 2014

Ashland Half-Marathon & 5K Race – 21 March 2015 (POSTPONED)

119th Boston Marathon – 20 April 2015

Run of the Charles – 26 April 2015

Project Bread's Walk for Hunger – 02 May 2015

MS Ride the Vineyard – 02 May 2015

MS Journey of Hope Walk, Natick – 16 May 2015

Westford Apple Blossom Parade – 16 May 2015

MS Cape Cod Getaway – 27 June 2015

## BOSTON MARATHON 2015 ~ Tom Turner, KB1OQA

Monday, April 20<sup>th</sup> was cold, showery, and in the high 30's to low 40's as I awoke at 0200 Hrs., had breakfast, and made preparations for the drive to Hopkinton, MA, the starting point for the 19<sup>th</sup> running of the Boston Marathon. I had been assigned to work as a communications "Shadow" for one of the B.A.A. employees whose duty it was to oversee the so-called "Corrals," where 30,000 runners from around the world form up to begin the 26.2 mile run to the Finish Line in Boston, MA.

Each year, approximately 300 Amateur Radio Operators volunteer their time, providing vital and needed communications services for this event. Some work outside along the course itself in various roles, while others work inside at various Net Control points along the route.

On arrival in Hopkinton, I was directed to the State Park, where I parked my car, and was taken by shuttle bus to the Town Common. Our START Team of approximately 34 Hams were issued the necessary credentials for the areas we would be working in, such as the Athletes Village, Town Common, and the Starting Line area. Our Team was also briefed on the start times of the various segments of the Marathon, along with relevant updates, such as assignment changes, weather conditions, etc.

There was a high Police presence comprised of Federal, Local, and State Law enforcement agencies and security was extremely tight, as was the case in 2014. Security sweeps took place periodically to insure the safety of everyone involved; BAA personnel, Runners, and volunteers alike.

The START Team operated on several simplex frequencies, supplemented by a repeater frequency to insure complete and seamless communications during this event.

Shortly before 10 AM, the race began. Since everyone can't be at the Starting Line at the same time, releases are staggered. The runners are released in four "waves," due to their large numbers, and it's quite a sight to see.

By 11:30 AM, the last of the runners had crossed the Starting Line and were on their way to Boston. There were no emergencies in Hopkinton involving those running or working the event. The rain began to pour as I made my way back to the Bus Stop to pick up my car for the ride home.

For new Hams interested in Public Service venues, the Boston Marathon provides a great learning opportunity. Many of us have worked this event for several years, gaining much knowledge about radio usage, and making new friends at the same time. I would recommend it to all.

## March Membership Meeting Notes

### Dick Frey - WA2AAU

## VHF CONTESTING – Let's Just Do It

Dick is President of both the [North East Weak Signal Group](#), the premier VHF/UHF club in the Northeast, and of the [Mt. Greylock Expeditionary Force](#) (W2SZ—the VHF contest group on Greylock Mt.)

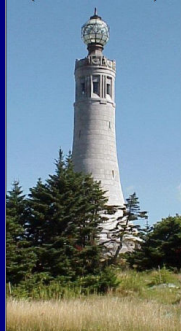
Dick showed us how VHF Contesting works, and why it is fun. He covered how to get involved, how far you can talk, what is a rover station, and more.

Here are some of his slides.



## Contest Basics

### W2SZ/1 (The MGEF)



R. L. Frey - WA2AAU

### Introduction

#### Just What Is VHF Contesting??

- An Operating Competition On Ham Frequencies Above 50 MHz
- But It Can Be So Much More...
  - A VHF “Field Day”
  - Technical Challenge
  - Learn New Things
  - Mobile Operation (Rovers)
  - International Travel !? (Yes!)

### W2SZ/1 (The MGEF)

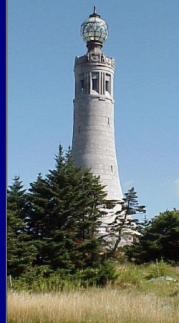


### Why VHF Contesting?

#### • It's Fun

- Improves Operating Skills
  - Especially Copying Weak Signals
- Promotes Activity
  - As Always, Use It Or Loose It
- Encourages Station Improvement
- Encourages New Technology

### W2SZ/1 (The MGEF)



R. L. Frey - WA2AAU

### How Can I Compete?

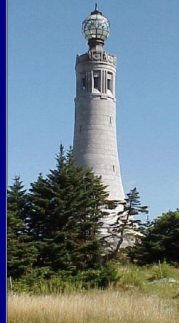
#### Lots of Categories

- Single Operator, Low or High Pwr
  - From Home, Or Go To A Hilltop
- Single Operator Portable (10 W)
- Multi-Operator (Like W2SZ/1)
  - Take Your Friends With You!!
  - Unlimited or Limited version
- Rover –Drive to a lot of different good spots. (1 or 2 operators)

VHF Contesting – It's Really FUN!

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### W2SZ/1 (The MGEF)



R. L. Frey - WA2AAU

### How Do I Get On The Air?

- Any Way You Can!
- What VHF Radios Do You Have?
  - Do You Have An FM Rig? **Use it!!**
  - How About A Multimode VHF Rig? –**Even Better Yet!!**
- Do You Have An HF Radio With Some VHF Bands On It? **Great!**
  - Many Radios Now Have 6 Meters, 2 Meters or Even 432 MHz
  - Many Are Small, Nice For Mobile

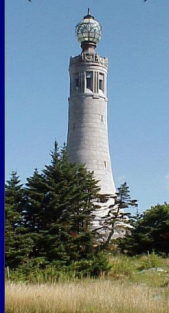
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## March Membership Meeting Notes ~ continued

W2SZ/1  
(The MGEF)



R. L. Frey - WA2AAU

### What About Antennas?

- Outside Antenna Almost a **MUST** For Home Station Operation.
  - Get it up in the clear if you can.
  - Vert. Ground planes OK for FM
  - Horizontal Yagis Best At Lower Frequencies; uW: Loopers; Dishes
  - **Try Anything You've Got to Start** Even an 80 Meter Dipole on 6 M!!
- Portables and Rovers use Whips, Loops, Yagis, and Dishes – But Start Simple!

VHF Contesting – It's Really FUN!

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432 MHz

222 MHz

144 MHz

2304

1296

3456

903

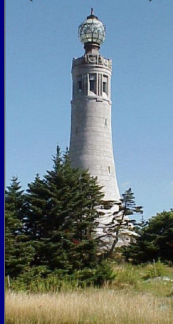
50 MHz

W2IV VHF  
Antennas  
(A Serious  
Single Op)

This is NOT simple! From the top:

70cm, 1¼M, 2M, 13cm, 23cm, 9cm, 33cm, 6M

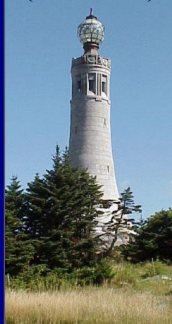
W2SZ/1  
(The MGEF)



### How Far Can I Talk?

- It Depends on LOTS of Things
- If 6 Meters is open... Florida or Even California. Likely in June.
- On 2 Meters and up... Florida (if we get a rare "tropo" opening).
- More Typically, 50-200 Miles with a simple home SSB station. Much further from hilltops.
- Even on FM, 30-100 Miles is Normal

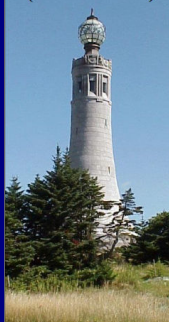
W2SZ/1  
(The MGEF)



### What Do I Say?

- Contest Exchange is Simple
- Must Exchange Call Signs and Grid Squares
- Use a Map To Determine Grid
- Or GPS Lat/Long + A Program
- Please Keep A Log and Send It In
- Helps Hams Prove We're Using the Bands!! Use It or Loose It!!

W2SZ/1  
(The MGEF)

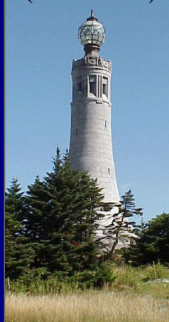


R. L. Frey -

### What Frequency Do I Use?

- If on SSB or CW, Look near here 50.125, 144.200, 222.100, 432.100 903.10, 1296.10, 2304.10, etc, etc... But don't camp on these calling freqs.
- If on FM, **Do Not Use Repeaters** Try These Simplex Frequencies:  
52.525 MHz  
146.55 – **Do not use 146.52 MHz**  
223.50 and 446.00 MHz

W2SZ/1  
(The MGEF)

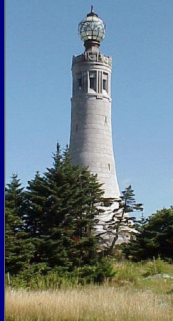


R. L. Frey - WA2AAU

### In The Car?? Get On The Air

- Even You Can Be A Rover!!
  - Flip On The Radio
  - On FM? **Repeaters not allowed!**
- Common FM Contest Frequencies  
146.55 MHz **Do not use 146.52**  
223.50 MHz  
446.00 MHz
- Remember... know your grid!  
Go to more than one, have fun!

W2SZ/1  
(The MGEF)



R. L. Frey - WA2AAU

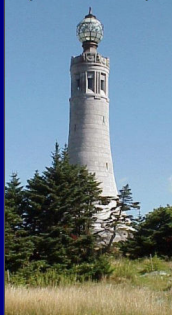
### Now For Some Recruiting... Just Get Out There And Have Some Fun!

- Easiest – Only have an FM rig?
  - Just Be a Rover In Your Car
- Have a Multi-Mode Rig?
  - Get on SSB or CW as a Rover
  - Take a Beam if you have one
- Have an Outdoor Ant. at Home?
  - Great! Get on & CONTEST!

VHF Contesting – It's Really FUN!

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W2SZ/1  
(The MGEF)



R. L. Frey - WA2AAU

### Can I Join MGEF – **YES!**

Yeah... more recruiting...

- Lots of Different Ways!... Three General Categories
  1. Hilltop Operator
  2. Local Rover
  3. Long-Haul Rover
  4. For the Fun and Satisfaction of doing the Very Best you can!!

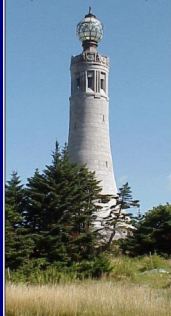
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## March Membership Meeting Notes ~ continued

### Mt. Greylock Expeditionary Force

#### W2SZ/1 (The MGEF)



R. L. Frey - WA2AAU

#### W2SZ/1 PICTURES

- Unlimited Multi-Operator Station
- Operate From Mt. Greylock, Adams, Massachusetts – 3491 ft
- Grid Square = FN32
- Use All Bands 50 MHz – 47 GHz and sometimes higher incl. light.
- Very Large Team Effort
- 15 – 20 People on Hill (Sat, Sun.)
- Also Lots of Rovers Near & Far

VHF Contesting – It's Really FUN!

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#### W2SZ/1 Main Station

(9 Towers)



www.mgef.org

Frey - WA2AAU

VHF Contesting – It's Really FUN!

#### 6 Meter Antenna



4 Stacked  
6-Element Yagis  
On a 50-Foot Tower  
With 20' Mast

Lately We Have Been  
Using 2 Short Towers  
With 2 Beams on Each



#### 903/1296 Dish and

W1SZ Setting Up  
1<sup>st</sup> of 2 34-ft Two  
Meter Antennas  
For Ground Wave

#### High Microwave Tower



www.mgef.org

R. L. Frey - WA2AAU

VHF Contesting – It's Really FUN!

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10 GHz WBFM  
47 GHz CW  
24 GHz WBFM  
10 GHz CW/SSB

#### KJ1K Long Haul Rover

MMRA 0315

FN53  
Maine  
SSB/CW  
All  
Bands  
Through  
10 GHz

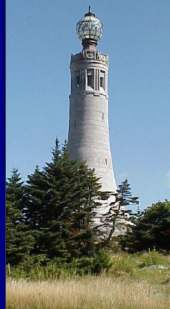


R. L. Frey - WA2AAU

VHF Contesting – It's Really FUN!

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#### W2SZ/1 (The MGEF)



R. L. Frey - WA2AAU

#### CONCLUSION

- VHF Contesting is FUN
- It's a Great Challenge
- You LEARN Stuff
- Next VHF Contest in June...  
- On June 13-14, 2015
- Summer is a Great Time !!
- Get Out There and ENJOY Mother Nature

VHF Contesting – It's Really FUN!

MMRA 0315

Want to get more information or get  
involved with VHF Contesting?

Check out the  
**North East Weak Signal Group**

< <http://www.newsvhf.com/> >

...or send **Dick** an email:  
[rlfbauer@gmail.com](mailto:rlfbauer@gmail.com)



## Upcoming MMRA Meetings

Wed, 24 Sept ~ Membership Meeting  
The Art and Science of Radio Direction Finding, Bob Ravenstein—W1FDR  
Northborough Public Library

Wed, 15 Oct ~ Business Meeting  
Stratus, Maynard

Saturday, 15 Nov ~ Membership Meeting  
Our November meeting will be at the WTAG radio station transmitter in  
Holden. Don't miss this special event!

Wed, 17 Dec ~ Business Meeting  
Stratus, Maynard

Wed, 21 Jan ~ Membership Meeting  
New Roles for Amateur Radio in Public Service and Emergency  
Communications ~ Rob Macedo, KD1CY  
Westborough Public Library

Wed, 18 Feb ~ Business Meeting  
Stratus, Maynard

Wed, 18 Mar ~ Membership Meeting  
VHD Contesting — Let's Just Do It  
Dick Frey - WA2AAU ~ President of both the NEWS group & W2SZ  
Tatnuck Bookseller, Westborough, MA

Wed, 15 Apr ~ Business Meeting  
Stratus, Maynard

Wed, 20 May ~ Membership Meeting  
Annual Meeting: Officers Report and General Elections  
Campion Center, Weston

Wed, 17 June ~ Business Meeting  
Stratus, Maynard

Saturday, 22 August ~ Mid-summer Get Together  
Boxboro ARRL Convention Dinner

## Don't Forget! Join Us.

**Every Tuesday @ 8 PM**  
**Technical, Informational and Other**  
**Stuff Net**

The MMRA's repeaters are linked Tuesday nights  
for the TIOS Net. Keep up with what's happening  
in the MMRA and ask your ham related questions.

### Net Control Operators:

|        |        |                |
|--------|--------|----------------|
| Week 1 | WA1JIM | Jimmy Devaire  |
| Week 2 | W1DYJ  | Larry Banks    |
| Week 3 | KC1CLA | Ed Curley      |
| Week 4 | K1KWP  | Kevin Paetzold |
| Week 5 | KB1OQA | Tom Turner     |

To connect using Echolink / IRLP during the Net:

- Echolink Conference \*NEW-ENG2\*
- IRLP node 4133

## MMRA Leaders

### Officers

|                     |                |       |
|---------------------|----------------|-------|
| President           | Bob DeMattia   | K1IW  |
| Vice President      | Steve Telsey   | N1BDA |
| Secretary           | John McGovern  | W1JMC |
| Treasurer           | Kevin Paetzold | K1KWP |
| Clerk               | Bob Evans      | N1BE  |
| * Technical Officer | Bryan Cerqua   | W1BRI |

### Board of Directors

|                |               |        |
|----------------|---------------|--------|
| Director »2015 | Steve Schwarm | W3EVE  |
| Director »2015 | Roger Coulson | WA1NVC |
| Director »2016 | Clark Conti   | N1NVK  |
| Director »2016 | Mike Neilsen  | W1MPN  |

### Repeater Trustees

|  |                  |        |
|--|------------------|--------|
| * Belmont 145.430                                | James Lee        | N1DDK  |
| * Boston 927.0625                                | Rick Zach        | K1RJZ  |
| * Boston 146.820                                 | John Mullaney    | K1BOS  |
| * Brookline 145.160                              | Joyce DeMattia   | N1QPH  |
| * Brookline 146.820 Rcvr                         | Bob Phinney      | K5TEC  |
| * Burlington 146.715                             | Bruce Pigott     | KC1US  |
| * Burlington 446.775                             | Larry Banks      | W1DYJ  |
| * Hopkinton 223.940                              | James Cahill     | KB1LOY |
| * Lowell 442.250                                 | Vince De La Flor | K1LVF  |
| * Marlborough 53.810; Quincy 146.670;            |                  |        |
| Marlborough 449.575                              | Bryan Cerqua     | W1BRI  |
| * Marlborough: 29.68, 144.390, 147.270, 224.880, |                  |        |
| 448.225, 449.925, 927.700 — all as W1MRA         |                  |        |
|  | Bill Northup     | N1QPR  |
| * Mendon 146.610                                 | Jim Podsiadlo    | AE1C   |
| * Quincy 224.40                                  | Bill Dunn        | N1KUG  |
| * Weston 146.790                                 | Bob Evans        | N1BE   |
| * Weston 224.700                                 | Eddie Mulhern    | N1NOM  |
| * Weston 442.700                                 | David Wolfe      | KG1H   |

### Additional, non-Voting

|                     |                |       |
|---------------------|----------------|-------|
| * Newsletter Editor | Larry Banks    | W1DYJ |
| * Emerg. Coord.     | Kevin Paetzold | K1KWP |
| * Pub. Serv. Coord. | David Wolfe    | KG1H  |
| * VEC Liaison       | Bill Wade      | K1IJ  |
| * Net Manager       | Larry Banks    | W1DYJ |
| * Web Page Editor   | Bob DeMattia   | K1IW  |
|                     | * Appointed    |       |

Previous issues of the MMRA Newsletter are available at:  
[www.mmra.org](http://www.mmra.org) → [Newsletter Archive](#) (on the left)

## MMRA VE Sessions

*Second Saturday*

*9 AM at the Marlboro Public Library*

Contact: Bill Wade, K1IJ 781-891-9079  
Evenings 6 - 10 PM Weekends 8 AM to 10 PM.  
Accredited by the ARRL VEC

**Membership Meeting ~ Wednesday, May 20 ~ 7 PM**

## **Officers Report to Members and General Elections**

**The Campion Center, 319 Concord Road, Weston**

**Talkin: 146.79**

### **Calendar of Ham Radio Flea Markets**

**For more information: <http://mit.edu/w1gsi/Public/ne-fleas>**

|           |                |                            |
|-----------|----------------|----------------------------|
| 9 May     | E Greenbush NY | EGARA @FireCo              |
| 17 May    | Cambridge MA   | Flea at MIT                |
| 30 May    | Goshen CT      | SoBARC @FG                 |
| 30-31 May | Whitman MA     | WARC @KoC                  |
| 31 May    | Fishkill NY    | MtBARC @QWL                |
| 31 May    | Queens NY      | HOSARC @HoS                |
| 6 Jun     | Hermon ME      | PSARA @HS                  |
| 6 Jun     | Windsor CT     | VR+C Mus<br>115 Pierson LN |
| 7 Jun     | Bethpage NY    | LIMARC@Briarcliffe         |
| 20 Jun    | Newington CT   | NARL @StMary               |
| 21 Jun    | Cambridge MA   | Flea at MIT                |

|           |                 |                            |
|-----------|-----------------|----------------------------|
| 21,23 Aug | Boxboro MA      | FEMARA NE Conv             |
| 30 Aug    | Adams MA        | NoBARC @BoweFld            |
| 5 Sep     | Windsor CT      | VR+C Mus<br>115 Pierson LN |
| 13 Sep    | Ballston Spa NY | SCRACES @FG                |
| 13 Sep    | Newtown CT      | CARA @TownHall             |
| 19 Sep    | Forestdale RI   | RIAFMRS @VFW               |
| 20 Sep    | Cambridge MA    | Flea at MIT                |
| 26 Sep    | Brookline NH    | NEARC Antique              |
| 16,17 Oct | Deerfield NH    | NEARfest XVIII             |
| 25 Oct    | Hicksville NY   | LIMARC @LevitHall          |
| 14 Nov    | Bourne MA       | FARA@UpperCC VoTech        |

THE MINUTEMAN REPEATER ASSOCIATION

**MMRA**  
**P.O. Box 669**  
**Stow, MA. 01775-0669**

Email: [contact@mmra.org](mailto:contact@mmra.org)



WE'RE ON THE WEB  
[HTTP://WWW.MMRA.ORG/](http://www.mmra.org/)

**Have you renewed your  
membership yet?**

All 2014 memberships expired on August 31st!  
Time to renew either on the Member's login link  
at [www.mmra.org](http://www.mmra.org) or by U.S. Mail with a check